

[See all 47 Products in Family](#)

TECHSPEC® 12.5mm Dia. x 2.0mm Thickness Uncoated, Silicon Window



TECHSPEC Silicon (Si) Windows

Stock #68-522 **16 In Stock**

⊖ 1 ⊕ €141⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-10	€141,00 each
Qty 11-25	€124,00 each
Qty 26-49	€117,00 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Protective Window **Type:**

Physical & Mechanical Properties

11.25 **Clear Aperture CA (mm):**

Diameter (mm):

12.50 +0.0/-0.1

Thickness (mm):
2.00 ±0.1

Parallelism (arcmin):
<3

Dimensional Tolerance (mm):
+0.0/-0.1

Bevel:
Protective as needed

Clear Aperture (%):
90.00

Edges:
Fine Ground

Poisson's Ratio:
0.27

Young's Modulus (GPa):
140

Knoop Hardness (kg/mm²):
1,150.00

Optical Properties

Coating:
Uncoated

Substrate:
Silicon (Si)

Index of Refraction (n_d):
3.422 @5μm

Surface Quality:
60-40

Wavelength Range (nm):
1200 - 7000

Surface Flatness (P-V):
1λ

Material Properties

Density (g/cm³):
2.33

Coefficient of Thermal Expansion CTE (10⁻⁶/°C):
2.55

Regulatory Compliance

RoHS 2015:
[Compliant](#)

Reach 219:
[Compliant](#)

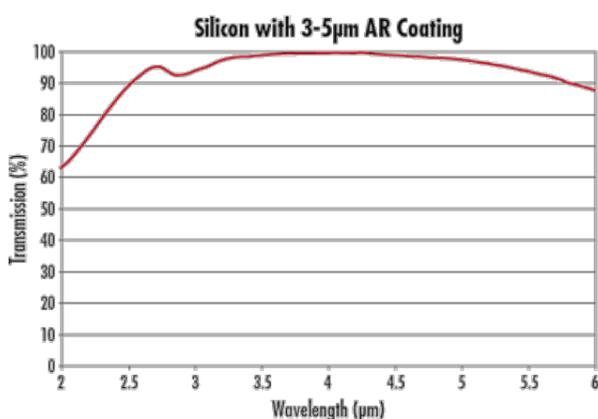
Certificate of Conformance:
[View](#)

Product Details

- Transmission from 1.2 - 7μm
- Available Uncoated or AR Coated for 1.65 - 5μm
- Ideal for Weight Sensitive Applications

TECHSPEC® Silicon (Si) Windows manufactured from optical grade silicon are popular for the 1.2 - 7μm spectral region due to their low cost and low density. Due to its low density (half that of [germanium](#) or [zinc selenide](#)), silicon is ideal for weight sensitive applications, especially those in the 1.65 - 5μm region. Density is 2.329 g/cm³ and Knoop Hardness is 1150, making it harder and less brittle than germanium. TECHSPEC® Silicon (Si) Windows available uncoated or AR coated for 1.65 - 5μm. These crystal windows are offered in diameters ranging from 10 – 76.20mm.

Technical Information



Custom

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Compatible Mounts
